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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): A method for retrieving data from classified table elements

having a data processing system comprising a database, the database comprising classified table

elements stored on a computer-readable medium, the data processing system external to a

classification engine adapted to provide indicators of approval or non-approval to permit, for a

request associated with a requester, access to contents of the classified table elements, the

method comprising:

receiving the request <u>directly</u> at the database, from the requestor, to access the contents of

the classified table elements; for each classified table element, the database asking the

classification engine to provide an indication of whether the requestor associated with the request

is to be permitted access to the contents of the respective classified table element; and

accessing the contents of each classified table element for which an approval indicator is

received from the classification engine, the approval indicator indicating that the requester is

permitted to access the contents of the respective classified table element; wherein the asking

step comprises sending, by the database, arguments to input classification parameters to the

classification engine coupled to the data processing system.

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classified table element.

2. (original): The method of claim 1, further comprising the steps of: providing, to the requester, access to the contents of each classified table element for which an approval indicator is received; and, denying, to the requester, access to the contents of each classified table element for which a non-approval indicator is received from the classification engine, the non-approval indicator indicating that the requester is not permitted to access the contents of the respective

- 3. (original): The method of claim 1, wherein: the classified table elements are included in a classified table contained in the database; each classified table element is associated with a respective classification label; and the classification engine uses the classification label for each classified table element and a classification associated with the requestor in determining whether to provide the approval indicator and whether to provide the non-approval indicator for the respective classified table element.
- 4. (original): The method of claim 3, wherein the classified table element is a classified table row.
- 5. (original): The method of claim 4, further comprising the step of compiling the request received at the receiving step into a plurality of executable instructions, the executable instructions comprising added instructions for invoking the classification engine such that for each row of the classified table, arguments for at least one classification parameter are passed to

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the requester.

the classification engine for use in generating one of the approval indicator and non-approval indicator for the respective row, where the arguments comprise both data stored in one or more classification columns of the table and data used to determine the classification associated with

6. (original): The method of claim 5, wherein the classification engine is adapted to generate the indicators using a classification level derived by the classification engine for each row, the classification level being derived from data stored in the at least one classification column of each respective row in accordance with a column mapping scheme.

- 7. (original): The method of claim 1, wherein in the asking step, the classification engine is invoked through at least one processing exit in the data processing system.
- 8. (original): The method of claim 1, further comprising, before the asking step, the step of checking, for each classified table element, whether a decision cache contains one of an approval indicator and non-approval indicator associated therewith, and wherein the asking step is performed only when neither indicator is contained in said decision cache.
- 9. (currently amended): A data processing system having a database, the database comprising classified table elements stored on a computer-readable medium, the data processing system external to a classification engine adapted to provide indicators of approval or non-

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approval to permit, for a request associated with a requestor, access to contents of the classified table elements, the data processing system comprising one or more modules programmed to perform the steps of:

receiving the request <u>directly</u> at the database, from the requester, to access the contents of the classified table elements; for each classified table element, the database asking the classification engine to provide an indication of whether the requestor associated with the request is to be permitted access to the contents of the respective classified table element; and

accessing the contents of each classified table element for which an approval indicator is received from the classification engine, the approval indicator indicating that the requestor is permitted to access the contents of the respective classified table element; wherein the asking step comprises sending, by the database, arguments to input classification parameters to the classification engine coupled to the data processing system.

10. (original): The data processing system of claim 9, wherein the one or more modules are further programmed to perform the steps of: providing, to the requestor, access to the contents of each classified table element for which an approval indicator is received; and, denying, to the requester, the copy of the accessed contents of each classified table element for which a non-approval indicator is received from the classification engine, the non-approval indicator indicating that the requestor is not permitted to access the contents of the respective classified table element.

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11. (original): The data processing system of claim 9, wherein: the classified table elements are included in a classified table contained in the database; each classified table element is associated with a respective classification label; and the classification engine uses the classification label for each classified table element and a classification associated with the requestor in determining whether to provide the approval indicator and whether to provide the

12. (original): The data processing system of claim 11, wherein the classified table element is a classified table row.

non-approval indicator for the respective classified table element.

13. (original): The data processing system of claim 12, wherein the one or more modules are further programmed to perform the step of compiling the request received at the receiving step into a plurality of executable instructions, the executable instructions comprising added instructions for invoking the classification engine such that for each row of the classified table, arguments for at least one classification parameter are passed to the classification engine for use in generating one of the approval indicator and non-approval indicator for the respective row, where the arguments comprise both data stored in one or more classification columns and data used to determine the classification associated with the requestor.

14. (original): The data processing system of claim 12, wherein the classification engine is adapted to generate the indicators using a classification level derived by the classification

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engine for each row, the classification level being derived from data stored in the at least one classification column of each respective row in accordance with a column mapping scheme.

15. (original): The data processing system of claim 9, wherein in the asking step, the

classification engine is invoked through at least one processing exit in the data processing system.

16. (original): The data processing system of claim 9, wherein the one or more modules

are further programmed to perform, before the asking step, the step of checking, for each

classified table element, whether a decision cache contains one of an approval indicator and non-

approval indicator associated therewith, and wherein the asking step is performed only when

neither indicator is contained in said decision cache.

17. (currently amended): A computer-readable storage medium storing a program which

causes a data processing system comprising a database to implement functions of retrieving data

from classified table elements, the database comprising the classified table elements, the data

processing system external to a classification engine adapted to provide indicators of approval or

non-approval to permit, for a request associated with a requestor, access to contents of the

classified table elements, said functions comprising:

receiving the request directly at the database, from the requestor, to access the contents of

the classified table elements; for each classified table element, the database asking the

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classification engine to provide an indication of whether the requestor associated with the request

is to be permitted access to the contents of the respective classified table element; and

accessing the contents of each classified table element for which an approval indicator is

received from the classification engine, the approval indicator indicating that the requestor is

permitted to access the contents of the respective classified table element; wherein the asking

step comprises sending, by the database, arguments to input classification parameters to the

classification engine coupled to the data processing system.

18. (original): The computer-readable medium of claim 17, the method further

comprising the steps of: providing, to the requester, access to the contents of each classified table

element for which an approval indicator is received; and, denying, to the requestor, access to the

contents of each classified table element for which a non-approval indicator is received from the

classification engine, the non-approval indicator indicating that the requestor is not permitted to

access the contents of the respective classified table element.

19. (original): The computer-readable medium of claim 17, wherein: the classified table

elements are included in a classified table contained in the database; each classified table element

is associated with a respective classification label; and the classification engine uses the

classification label for each classified table element and a classification associated with the

requestor in determining whether to provide the approval indicator and whether to provide the

non-approval indicator for the respective classified table element.

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20. (original): The computer-readable medium of claim 19, wherein the classified table

element is a classified table row.

21. (original): The computer-readable medium of claim 20, the method further

comprising the step of compiling the request received at the receiving step into a plurality of

executable instructions, the executable instructions comprising added instructions for invoking

the classification engine such that for each row of the classified table, arguments for at least one

classification parameter are passed to the classification engine for use in generating one of the

approval indicator and non-approval indicator for the respective row, where the arguments

comprise both data stored in one or more classification columns of the table and data used to

determine the classification associated with the requestor.

22. (original): The computer-readable medium of claim 21, wherein the classification

engine is adapted to generate the indicators using a classification level derived by the

classification engine for each row, the classification level being derived from data stored in the at

least one classification column of each respective row in accordance with a column mapping

scheme.

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23. (original): The computer-readable medium of claim 17, wherein in the asking step,

the classification engine is invoked through at least one processing exit in the data processing

system.

24. (original): The computer-readable medium of claim 17, further comprising, before the

asking step, the step of checking, for each classified table element, whether a decision cache

contains one of an approval indicator and non-approval indicator associated therewith, and

wherein the asking step is performed only when neither indicator is contained in said decision

cache.